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MEMORANDUM FOR THE RECORD:

1 June 1956

FROM: [REDACTED]

DOCUMENT NO. 101

NO CHANGE IN CLASS. ☐

☐ DECLASSIFIED

CLASS. CHANGED TO: TS S 0200

NEXT REVIEW DATE: _____

AUTH: HR 70-2

DATE: 220/80 REVIEWER: 010956

1. Location - General

On May 14th, [REDACTED] OC-O&T, [REDACTED] TSS, and the author began a two-week course on infra-red communications. This school was held at [REDACTED] and dealt specifically with infra-red communications equipment presently used by this Agency. The four instructors referred to this equipment as the "O-98" and this designation is the only one that the author has knowledge of. Smaller versions are being developed but no instruction was given on these types.

The schooling itself was informal and held in an area used both as a dark-room and for optical alligning and testing of equipment. This area seemed to be very safe and convenient place as it was away from the laboratory proper and any conversation could not be overheard as well as providing a minimum of disturbances.

2. School

After completion of introductions we were given a detailed outline of the course. This outline separated the various components of the equipment to enable us to study the theory of these components individually. This included the evolution of the optical system; i.e., the lens, filters, and mirror, as well as the image tube, associated lens system and its reticule.

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Also, at this time, we had the complete Engineering Report made available to us along with the regular manual on the G-98 equipment. As mentioned before, there were four instructors, each of which spoke to us concerning his speciality and it's use in the equipment. During the first week, the instructors adhered to the outline quite closely. The second week more open discussion was held and questions and answers usually deviated from the outline however, this was no great detriment as the class consisted of only three men and the answers were usually of interest to all three.

During the second week, a field trip was held, for day and night operation of the equipment.

It was learned by the author that is producing a manual that will supplement the instruction manual now available. The new manual will be concerned mainly with the maintenance of the equipment as opposed to the one on hand which is concerned primarily with the operation. The Engineering Library will be notified of this new manual and instructed to secure one when they are available.

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3. Summary - Critique

The instructors for the school were specialists in their fields which enabled them to give clear and concise answers.

The course which was two weeks in duration could possibly be shortened by two or three days with no great loss in subject matter.

The case history of the unusual components; detector cell, optical system and galvanometer were covered quite thoroughly and explained to the students why the system used such-and-such a component rather than any other

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In summation the schooling was very thorough and, even with no previous experience in infra-red communication prior to this course, the author feels quite competent in operating or maintaining the Q98 equipment.



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